

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A method for interface of an IPABX ISDN private automatic branch exchange (IPABX) and a local exchange, comprising ~~the steps of:~~

processing a first call originated from ~~[[an]]~~ the IPABX by ~~[[a]]~~ the local exchange ~~having one discernible individual by binding grouping a plurality of data transmission lines, that is, to form~~ a data transmission line trunk group; and

processing a second call destined to the IPABX through the local exchange using the data transmission line trunk group.

2. (Currently Amended) The method of claim 1, wherein processing the first call ~~originating step~~ includes:

receiving an external connection code from an IPABX subscriber;

transmitting a set-up message to ~~[[a]]~~ the local exchange after receiving the external connection code;

checking ~~a caller~~ an origination number of the set-up message received by the local exchange;

~~collecting~~ receiving and translating a ~~subscriber's~~ called number if the ~~caller~~  
origination number is effective; and

searching a route sequence corresponding to the translated number and a trunk  
line to ~~terminate a route the first~~ call to a local subscriber or ~~route a call~~ to another exchange.

3. (Currently Amended) The method of claim 2, wherein, ~~in the step of checking a~~  
~~caller the origination number, in case of an individual charging system, a validity includes~~  
~~checking is performed to check~~ whether the origination number is identical to the a  
corresponding pre-digit, ~~while, in case of a representative charging system, it is checked only or~~  
checking whether there is an the origination number exists.

4. (Currently Amended) The method of claim 1, wherein processing the second call  
~~terminating step~~ includes:

translating ~~a callee phone~~ an origination number transmitted from a caller by [[a]]  
the local exchange;

searching out a first data transmission line connected to ~~a pertinent~~ the IPABX,  
and transmitting a 'data transmission line occupancy request signal' to a subscriber service  
processor (SSP) which manages the plurality of data transmission line lines, after translating the  
origination number;

searching a second data transmission line having an idle channel among the plurality of data transmission lines ~~of the~~ SSP;

establishing ~~[[a]]~~ the second call to the IPABX with the second data transmission line; and

transmitting a ~~ring~~ call notification to ~~[[the]]~~ a final destination terminal.

5. (Currently Amended) The method of claim 4, wherein if ~~[[the]]~~ a pre-digit of the ~~termination~~ second call is made with only a prefix, the pre-digit is recognized before the ~~subscriber's~~ origination number is translated, and a destination occupancy request signal is transmitted to ~~[[an]]~~ the SSP where ~~[[the]]~~ a final destination line of the corresponding data transmission line trunk group exists.

6. (Original) The method of claim 4, wherein the idle channel searching is performed by one of a sequential method, a circular method and a random method.

7. (Currently Amended) The method of claim 1, wherein ~~[[the]]~~ at least one data transmission line between the local exchange and the IPABX is operated by a trunk line system.

8. (Currently Amended) The method of claim 1, wherein the first call, the second call, or both are ~~originated and terminated between the IPABX and the local exchange is~~ distributed while being relayed by a plurality of SSPs.

9. (Currently Amended) The method of claim 8, wherein the local exchange makes a database for information on the number of allocated lines in the SSP per data transmission line trunk group, data transmission line trunk group information, SSP line information index per data transmission line trunk group, data transmission line trunk group line information, and pre-digit information, for relaying ~~an originated or terminated call~~ the first call and the second call to the plurality of SSPs.

10. (Currently Amended) The method of claim 1, wherein the local exchange sets a group name of ~~a generated~~ the data transmission line trunk group, as to whether a dial tone (~~a secondary tone~~) is to be provided, a digit transmission method, or a charging system.

11. (Currently Amended) The method of claim 1, wherein ~~[[the]]~~ a pre-digit assigned to the data transmission line trunk group ~~may be made only with~~ includes a prefix or ~~may be made with~~ a prefix plus a part of a subscriber's number.

12. (Currently Amended) The method of claim 11, wherein ~~[[the]] a pre-digit made~~  
~~with a~~ including the prefix plus a part of a subscriber's number can accommodate a general  
subscriber and the IPABX together.

13. (Original) The method of claim 1, wherein the local exchange can register a  
plurality of pre-digits for one data transmission line trunk group.

14. (Currently Amended) The method of claim 1, wherein the local exchange may set  
up the first or second call or release ~~[[a]]~~ the first or second call for each channel of ~~[[the]] a~~ data  
transmission line.

15. (Currently Amended) The method of claim 1, wherein the data transmission line  
trunk group does not ~~additionally~~ include a signaling point.

16. (Currently Amended) ~~[[A]]~~ An interfacing apparatus between an ISDN private  
switching system and a local exchange, comprising:

an IPABX for originating and terminating a call through a data transmission line  
connected to ~~[[a]]~~ the local exchange;

a plurality of SSPs for controlling each ~~sub-system so as~~ of a plurality of sub-

systems for ~~[[the]]~~ an originated call or a terminated call to be distributed;

~~an SNP~~ a switching and number translation processor (SNP) for translating ~~[[the]]~~  
a prefix of ~~[[an]]~~ the originated call or the terminated call and performing switching in  
association with the SSP;

a data transmission line trunk group for being assigned a ~~pri-digit made only with~~  
~~pre-digit including~~ a prefix or ~~a pri-digit made with~~ a prefix and a subscriber's number, as a  
conceptual device generated by ~~binding~~ bundling data transmission lines ~~of the~~ having a same  
~~pri-digit pre-digit~~ among data transmission lines connecting the local exchange and the IPABX;  
and

a PRI trunk group database for defining a connection relation of data transmission  
lines linking the IPABX, SSP and SNP ~~so as for the data transmission line trunk group to be~~  
~~substantiated as a device.~~

17. (Original) The apparatus of claim 16, wherein the data transmission line is  
operated in a trunk line system.

18. (Original) The apparatus of claim 16, wherein the local exchange can register a  
plurality of pre-digits for one data transmission line trunk group.

19. (Original) The apparatus of claim 16, wherein the pre-digit made with a prefix plus a part of a subscriber's number can accommodate a general subscriber and the IPABX together.

20. (Currently Amended) The apparatus of claim 16, wherein the local exchange sets a group name of a generated data transmission line trunk group, as to whether a dial tone ~~(a secondary tone)~~ is to be provided, a digit transmission method, or a charging system.

21. (Original) The apparatus of claim 16, wherein the data transmission line trunk group database includes a database of the information on the number of allocated lines in the SSP per data transmission line trunk group, a data transmission line trunk group information database, a SSP line information index database per data transmission line trunk group, a data transmission line trunk group line information database, and a pre-digit information database.